

## COVER STORY

## ISCC Lifetime Achievement Award

## G. D. KELKAR

(1932-2010)

S hri Govind. D. Kelkar popularly known as Bhausahab Kelkar a renowned industrialist, great Philanthropist , visionary, educationist and a great perfumer has left an incredible mark on the Indian Cosmetic Industry.

The founder and first president of Indian society of cosmetic chemist started his journey in the industry in 1952 when he joined the family business as Managing Director of S. H. Kelkar & Co Pvt Ltd. Under his leadership the company received several accolades. He is the only Indian to be elected in 2000 as Honorary Member of



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the prestigious French Society of Perfumers. He was also invited by UNIDO to become a member and report on viability of Essential oil Plantations in Asian countries. He held the prestigious position of the chairman of CHEMEXCIL.

His contribution in the development of education and research was seen in the form of establishment of V. G. Vaze College in Mumbai. As a visionary he also set up the Scientific Research Centre which has made a

path breaking work in plant biotechnology and in cosmetic research and testing.

His expertise in Perfumery was recognised universally and was accorded with National and International recognition. He was bestowed with the Life time achievement award for his valuable contribution to the perfumery industry by Ministry of Commerce and Industries, Government of India. The fragrance of his memory will always linger in our minds

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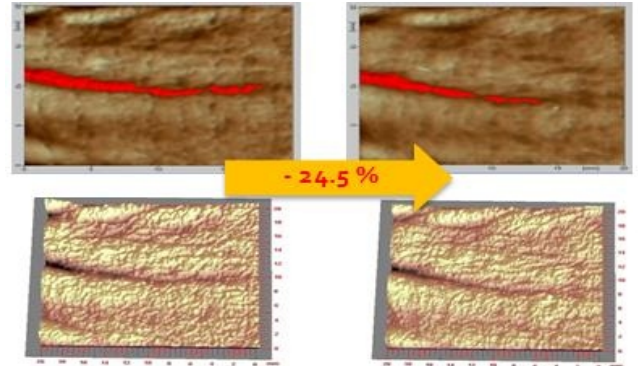


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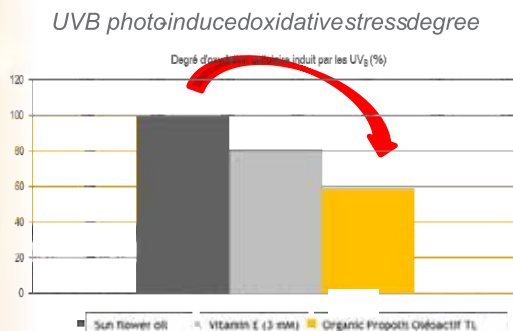
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## COVER STORY

## ISCC Lifetime Achievement Award

## S.M. SHANBHAG

After passing BSc Tech from UDCT in year 1969 I joined Lakme. My entire lifetime was spent on Lakme, a cosmetic brand. It's transition to Lever transformed it from 1 crore turnover in year 1971 to 1500 crore in year 2005 when I retired.

All along I was involved in product development. In the process I rose from Officer to General Manager level. With various constraints in that period focus was indigenous cosmetic products with reasonable price which can sell in local market.

In this process several local suppliers were encouraged with all in lab synthesised raw materials conceptualized process technology or machinery. These spoon fed innovations became prosperous businesses for these entrepreneurs.

My association with Lakme and cosmetics did not end after Unilever retirement. I worked in various companies as technical consultant. I am currently associated with Trent Ltd. which is original Lakme shell company. Rebirth Lakme has happened in the name of Studio West.

In this long journey most valued longest association was of one person I most respect. He is none other than Mr Anil Chopra.

" I have been associated and worked along with Mr. SM Shanbhag - SMS, as he is fondly known, for 34 years. My association with him started in 1982 in the erstwhile Lakme Ltd company under the Chairmanship of Mrs. Simone Tata. It was a difficult time as India was a closed economy. But SMS went beyond being an outstanding R&D cosmetics chemist to understanding raw materials and helped many a manufacturer to start making speciality chemicals for Lakme. This helped Lakme in offering quality products at a reasonable price to consumers, making it the No. 1 brand in India.

Both SMS and I moved to Hindustan Unilever in 1999 and maintained Lakme's leadership, till we both retired.

I believe that SMS's contribution to the cosmetics industry in India is truly outstanding.

My heartiest congratulations at HPCI conferring on Mr. SM Shanbhag 'Lifetime Achievement Award'.

**Anil Chopra**

Former CEO – Lakme Lever Ltd



“ SMS greatest strength lies in his passion to teach and train his juniors.

The cosmetics industry in India has several persons who have been associated with Lakme and had the enormous benefit of SMS's guidance.”

- Anil Chopra

## RESEARCH TRENDS

# INNOVATIVE NATURALS - THE CURRENT TREND

Dr Renuka Thergaonkar

Natural and organic are not new to us. Being Indians we have grown with concept of using only natural ingredients as beauty potions. We have been brought up on Rich heritage of Ayurveda with Lepas and tails. But slowly with the awareness to sustainability issues the concept of naturals and organic have picked up. Today most formulations in India revolve around the Ayurvedic recipes. But these products are traditional products with traditional feel.

The Drawbacks of current natural products are generally these are heavy feel formulation with no sensorial benefits and even the efficacy is subjective to batch wise variation of herbs.

Today Organic Monitor values the natural and organic cosmetic market at US\$10.4bn, with certified products making up \$3bn in Western Europe alone.

It is estimated the natural cosmetics market hit \$30 billion last year and it is predicted it will have a annual growth rate of 10% until 2019 (source Cosmetics Design).

Suddenly the market has turned to natural and organic products with emphasis on Innovative products. Innovation is being considered with respect to Consumer expectations, Sustainability, Natural formulations, Enhanced Sensorial appeal, Feel good Fragrances, Enhanced Efficacy and other aspects. Initially the market was more emphasizing on certified natural and organic products. But today a New breed of organic beauty product is emerging, where 'organic' is not always the main marketing message, Specific product benefits are becoming more prevalent on packaging, with sensitivity claims topping the list. The main key drivers in these products are

- FREE FROM
- AVOIDING OF SYNTHETIC CHEMICALS
- SYMBOLS and LOGOS

The whole world specially the consumers are looking on the labels for the claims pertaining to:

- Ethical Sourcing Of Ingredients,
- Green Chemistry,
- Sustainable Packaging,



- Organic /Natural
- Sustainable Production Methods,
- Water Management
- Reduction Of Carbon Footprints

The basic consumer expectation which were seen till few years back have just merged into bigger expectations in current era.

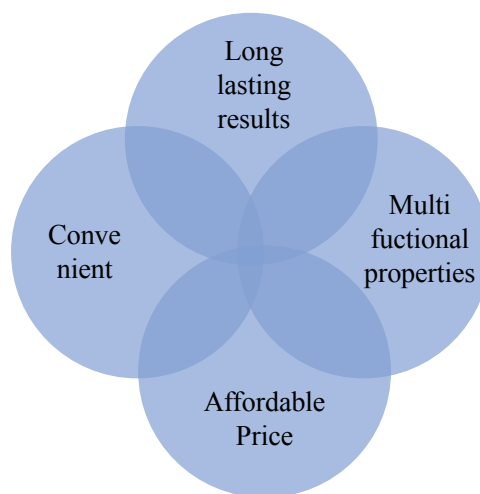


Figure 1 Current Consumer basic demands

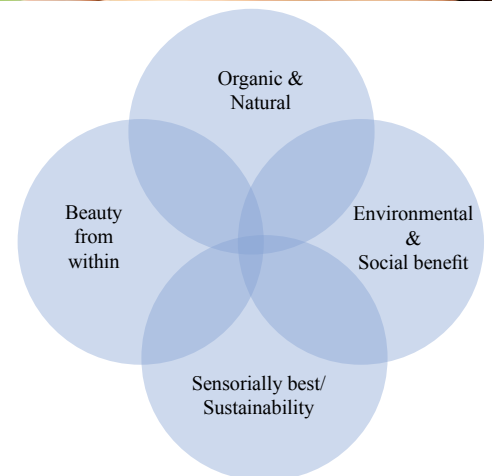


Figure 2 Current Broadpectrum Expectations of Consumers

Ingredients are not left behind but play a major role on the consumer buying process. More and more consumers are looking at the natural ingredients and products having completely natural and organic ingredients. Today even when we call the products organic or natural as per the definition they are called organic if they contain-

- Categories of permitted ingredients
- 95 % min of natural ingredients or of natural origin on the total of the ingredients



- 5% max. of synthetic ingredients of the total of the ingredients
- NATURAL and ORGANIC – 95 % min. of plant ingredients certified as Organic on the total of plant ingredients
- NATURAL - 50% min. of plant ingredients certified as Organic on the total of plant ingredients

Hence the developed innovative naturals should fall in the category of these definitions. The future ingredient trend is on:

- Super Food- link between organic food and beauty is getting more pronounced, with superfoods such as avocado, Kiwi, kale and pumpkin now featuring in ingredients lists for organic beauty products.
- Flower Power : Ingredients such as Helicrysum, chrysanthemum, Black Rose, Orchid etc are the future power packed ingredients.
- Natural colours- Colours from natural origin , clays and pigments from plant sources will be seen more in products
- Similarly the ingredients with more stress relieving and exotic luxurious feel like Caviar Crystal, White Truffle etc will be seen more.

The prohibited raw materials will be more from the categories pertaining to synthetic colorants, synthetic perfumes, synthetic anti-oxidants, synthetic emollients, synthetic oils and fats etc.

The innovative formulations trend will be more on creating completely natural cosmetic products but with enhanced sensorial feel. The challenge will be to keep the integrity of organic intact whilst still being able to scale it up. The emphasis will be on creating sustainable products. Sustainability will be considered at the R&D phase only as it not only drive innovation

in new products and processes but also bring cost savings and more efficient and consistent compliance. The use of delivery systems like natural penetration enhancers (mangiferein, nicotinamide etc), microsponges, chitospheres, chitosan etc will be done more to create efficacious cosmetic products. The formulations will be aiming more on

- Design the processes to reduce waste generation e.g. Cold Process emulsions
- Decreasing the need for solvents or exploring the use of safer solvents e.g. reduction in use of LLP
- Design of products with low water consumptions

Similarly the formulation approach for these products will be more towards scientific validation of standardized activities , Using these validations then the extracts will be incorporated in the product. The standardization and validation will be done on the basis of toxicity studies, physical phytochemical evaluations and assays such as antiageing assays, antioxidant assays, antityrosinase assays etc.

The finished cosmetic natural products are not accepted without a good fragrance by the consumers. But for the innovative naturals the industry will emphasis more on pursuing organic and natural fragrances in end products. Limited edition branding is likely to become increasingly visible in fragrances, creating an aura around an umbrella brand. Eco certified Fragrance raw material

Complying the regulatory demands of IFRA will be more preferred. The fragrance selection will be on the basis of Emotion Mapping where Fragrances will be more consumer mood and life style centric with Feel good effect. More Use of Delivery System like:

- Chitospheres : Biodegradable , enhances stability of fragrances without use of surfactants Prevents oxidation and degradation of products. Chitosan is a fully biodegradable natural polymer of marine origin
- Cosmospheres : beads based on cellulose and lactose. They have no shell wall and disappear completely when rubbed delivering the fragrance.

The fragrance blends with cosmetic benefits will be more preferred in these products. The fragrances will be more towards the

- Sweet, Soft, Sparkling & Surprising notes: Sorbets, Cashew Apple
- Oceanic, marine, ozone notes
- Subtle citrusy Floral notes
- Flower Blossoms
- Amber, Praline
- Calamondin– Vibrant citrus note

Though the new breed of natural cosmetics are slowly coming in but still the various accredating agencies are taking efforts on the international level to create certified products. The various international accredating agencies are:

1. Argencert- Argentina
2. Ecocert – Europe
3. California Certified Organic Farmers (CCOF)
4. International Federation of Organic Agriculture Movements (IFOAM)
5. The Ecological Farming Association
6. Organic Farming Research Foundation (OFRF)
7. Organic trade Association
8. Community Alliance with Family Farmers
9. Institute for Marketecology (IMO)
10. SKAL- Neatherlands
11. DEMETER
12. BDIH – Germany
13. ICEA (Institute for Ethical and Environmental Certification) - Italy
14. Cosmebio– France
15. Cosmos
16. Made Safe
17. Control Union certification

Hence Innovative Natural formulations are today more of creators creativity with a blend of scientific technology and consumer expectations.

## RESEARCH TRENDS

# INDIAN POMELO – THE POTENTIAL NATURAL COSMETIC MULTIFUNCTIONAL ACTIVE

Rahul Deshkar, Renuka Thergaonkar, Kshitij Satardekar

**Abstract:** Citrus Grandis is one of the most important member of the citrus family and having rich phytochemical properties. The study was conducted to evaluate the cosmetic activity of Indian Pomelo. The peel, pulp and peel plus pulp components were extracted in ethanol, ethyl acetate and distilled water by maceration. The extracts were analyzed for antioxidant activity by DPPH assay and Tyrosinase inhibition by Tyrosinase inhibition assay. Higher antioxidant activity was found 93% in peel extract in distilled water. Maximum Tyrosinase inhibition of 85% was observed in extract containing Peel and pulp. Hence it can be concluded that the extract has high potential for being used as cosmetic active ingredient as it is completely ecofriendly, sustainable and biodegradable.

**Introduction:** Pomelo also known as also called Pumello, Jabong, Lusho, Chinese Grapefruit, Shaddock and 'Chakotra'(Hindi), "Papanas" (Marathi) is a widely grown fruit in coastal regions of Maharashtra. The pomelo fruit belongs to citrus family & are closely related to grapefruit. It belongs to family "Rutaceae" & genus "citrus". Scientific name of pomelo is *Citrus Grandis* or *Citrus Maxima* & these fruits are native to south and Southeast Asia. Pomelo, is the largest member of the citrus family. Pomelo is big fruit with thick greenish yellow skin. Color of pulp differs as per the variety.

## Pomelo varieties & major production states in India

Citrus group	Cultivars		Area of cultivation
	Indigenous	Exotic	
Pomelo (C.maxima)	Chakotra, gagar, Red flesh, White flesh, Pink fleshed, kanapora, bhogote, sah mayngor,	Sweet china, royal, triumph, foxy	North eastern states, foothills of northwestern Himalaya, part of Bihar, uttarakhand, Uttar pradesh, Orissa



## Pomelo cultivation:-

Pomelo fruit can be grown on wide variety of soils from coarse sand to heavy clay. However, it grows in the deep, medium textured, fertile soils in lowland tropic sand elevation not exceeding 400 MASL ( meters above sea level ). The best soil pH is 5.5 to 6.5. The optimum temperature is 25oC to 32oC is required with annual rainfall of 150cm to 180 cm for its best growth yield.

## Uses

- Mostly pomelo is consumed as a food as it has high dietary nutritional values.
- Being from citrus genus it is a rich source of vitamin C extraction.
- Naringin is a flavanone derived from pomelo has great pharmaceutical significance.

## Medicinal properties of pomelo fruit

- Pomelo fruit prevents urinary tract infection.
- Helps in preventing common cold and flu.

- Helps in healing of wounds.
- Promotes healthy teeth and gums.
- Regulates blood pressure level.
- Aids in weight loss.
- Fights against cancer.
- Fight against aging.
- Have antimicrobial activities.
- Have high antioxidant properties.
- Have Tyrosinase inhibition potential.

## Plant material & extraction

Pomelo fruit samples were harvested from the pomelo tree from Mumbai region. Initially pomelo fruits were washed & peeled off and pulp part was crushed. Peel components, pulp components & peel-pulp components were extracted in ethanol, ethyl acetate & distilled water respectively using maceration technique. 20 g of peel part, pulp part, peel-pulp part were soaked in 80 g of solvents (w/w) for 24H respectively. After 24 hrs extracts were

filtered and subjected to evaporation at 45°C for 7 days in oven. Extracts obtained were A- Peel in Ethanol, B- Pulp in ethanol, C- Combination of Peel and Pulp in ethanol, D- Peel in ethyl acetate,, E- Pulp in ethyl acetate, F- Combination of Peel and Pulp in ethyl acetate, G- Peel in Water, H- Pulp in water, I- Combination of Peel and Pulp in water.

#### Phytochemical testing of extracts:

Tests	Ethanol		Ethyl acetate		Distilled water				
	A	B	C	D	E	F	G	H	I
Test for alkaloids	-	-	-	-	-	-	-	-	-
Test for carbohydrates	-	-	-	-	-	-	-	+	+
Test for proteins	-	-	-	-	-	-	-	-	-
Test for flavanoids	+	-	+	-	-	-	+	-	+
Test for tannins	+	-	+	-	-	-	+	-	+
Test for saponins	-	-	-	-	-	-	-	-	-

“+” presence, “-” Absence,

#### Efficacy Testing of Pomelo Extract:

The extract was evaluated for the antioxidant and antityrosinase activity by DPPH assay and Tyrosinase inhibition assays.

##### 1. Antioxidant assay

All extracts of pomelo in concentrations of 1 mg were added to 0.5 ml of 10mM DPPH in ethanol & the solution was kept for incubation in the dark for 30 min. The absorbance of reaction mixture was measured at 517 nm with a spectrophotometer.

The anti-oxidant ability was calculated as follows:

$$\text{Antioxidant activity (\%)} = \frac{100 - (\text{sample absorbance} - \text{blank absorbance}) \times 100}{\text{Positive control absorbance}}$$

**Table 1: Antioxidant activity of Pomelo extracts**

Extract Name	% activity
A	84.99
B	63.11
C	80.69
D	68.35
E	59.03
F	74.83
G	90.22
H	49.58
I	69.99
STANDARD	92.41

##### 2. Tyrosinase inhibition assay

Test sample:- 2mgs of all extracts of pomelo were dissolved in 1 ml sodium phosphate buffer pH (6.80) respectively.

Test samples were added to mushroom Tyrosinase enzyme (120IU/ml) & kept for incubation at 37°C for 15 mins. L-Tyrosinase (10 mM) substrate is then added to reaction mixture & again subjected to incubation for 15

mins. Assay is terminated by keeping reaction mixture at 40°C for 5 mins. Absorption is taken at 457 nm using spectrophotometer.

$$\% \text{ enzyme activity} = \frac{\text{test sample absorbance} \times 100}{\text{Control absorbance}}$$

$$\% \text{ enzyme inhibition} = 100 - (\% \text{ enzyme activity})$$

**Table 2: Tyrosinase inhibition activity of Pomelo extracts**

TEST	% Enzyme activity	% Enzyme Inhibition
A	49.19	50.81
B	44.79	55.21
C	41.62	58.38
D	47.74	52.26
E	39.77	60.23
F	44.30	55.70
G	31.76	68.24
H	17.52	82.48
I	14.56	85.44
STANDARD	10.00	90.00

**Observations:** It was observed that the Indian Pomelo extract A has a good antioxidant property of 84.99% and extract G has antioxidant property of 90%.

It was also observed that the extract A showed 50% enzyme inhibition activity and extract G showed 68.24 % inhibition activity, but the maximum inhibition of 85% was observed in extract I which was a peel and pulp extract in water.

**Result:** From the observations it can be seen that Indian Pomelo has a very good anti oxidant and tyrosinase inhibition activity leading to good anti ageing and skin whitening activity.

The best antioxidant property was observed in the extract obtained from peel of Indian Pomelo with distilled water. The maximum skin whitening activity was observed in the extract obtained from peel and pulp of the India Pomelo fruit. Hence Indian Pomelo can be used in the natural cosmetics as a raw material.



# NANOSTRUCTURED LIPID CARRIER – A SECOND GENERATION LIPID NANOPARTICLES WITH MULTIPLE APPLICABILITY IN COSMETIC SCIENCE

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## Abstract:

Nanotechnology is a science devoted to creation, modification and utilization of materials, devices, and systems in the nano-meter size range. Second generation lipid nanoparticles named Nano Structured Lipid Carrier showed extreme applicability in current Cosmetics products. Current research shows that this colloidal carrier based cosmetic formulations has numerous advantage in terms of better occlusion, penetration of actives, sun protection, stability when compared with conventional creams .

## Key Words:

Nano Structured Lipid Carrier, Colloidal carrier, Occlusion, UV blocker, Prolonged release

## Introduction

Numerous applications of nanotechnology in the pharmaceutical and cosmetic have revolutionized the administration of drugs and cosmetics[1,2]. Solid lipid nanoparticles (SLN) were developed at the beginning of the 1990s as an alternative carrier system to emulsions, liposomes and polymeric nanoparticles. A novel approach in cosmetic and pharma came with the invention of second generation of lipid nanoparticles Nano structured lipid carrier in 2005(7). In the second generation of the lipid nanoparticle technology, the particles are produced using blends of solid lipids and liquid lipids (oils).NLC were developed to overcome some potential limitations associated with SLN. Compared to SLN, NLC show a higher loading capacity for a number of active compounds, a lower water content of the particle suspension and avoid/minimize potential expulsion of active compounds during storage[3]. . NLC are composed of physiological and biodegradable lipids exhibiting low toxicity and low cytotoxicity, that means an excellent tolerability [3]

## Current Research

Nano structured lipid carrier increases skin hydration by “ Controlled Occlusion Effect”. The small size ensures a close contact to the stratum corneum and can increase the amount of drug penetrated into the skin[3]. The “Controlled Occlusion Effect” by NLC can be modified by their particle size and concentration [4].

Nanolipid carrier enhances the penetration of the actives through skin. An in vivo test comparing penetration of Co enzyme Q 10 into the skin after incorporation into an NLC suspension (NLC particles used in the two commercial products) and in an o/w emulsion showed clearly the superiority of the Nano carriers [4].

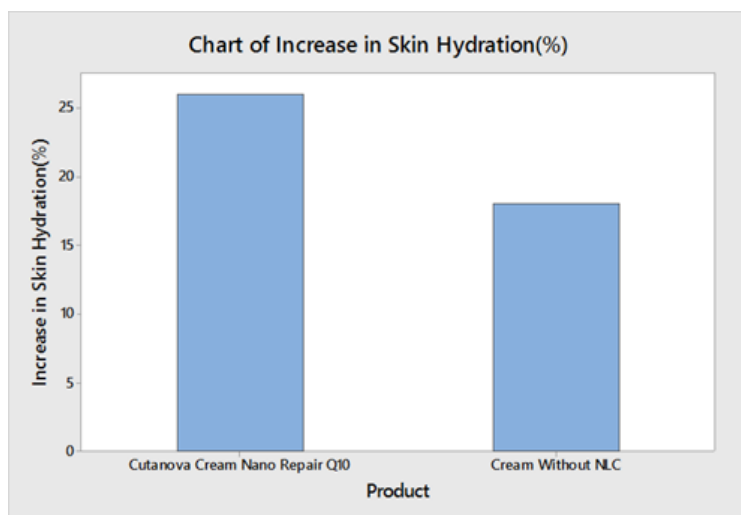


Fig:1 The increase in human skin hydration after application of Cutanova Cream NanoRepair Q10 and a cream having the same composition but replacing the NLC by o/w emulsion for 42 days [3]

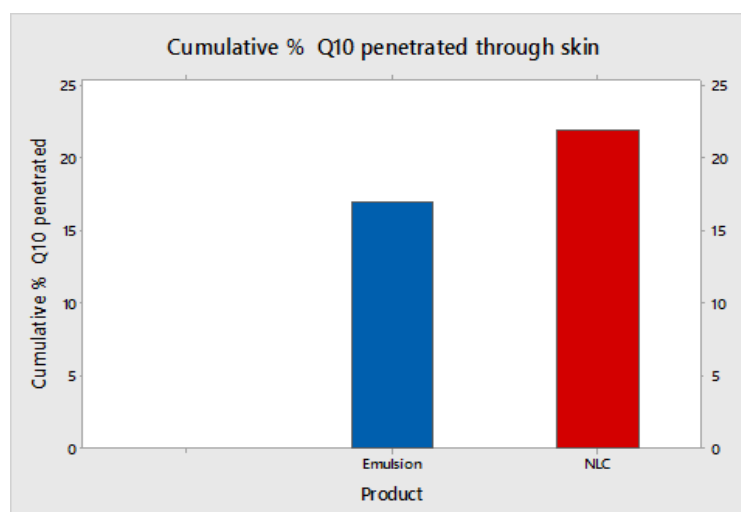


Fig 2:Penetration of Q 10 into the skin after incorporation into the NLC (as contained in NanoRepair) and after incorporation of Q 10 into a Miglyol o/w emulsion (both formulations having identical Q 10 content [4].



## Occlusion effect

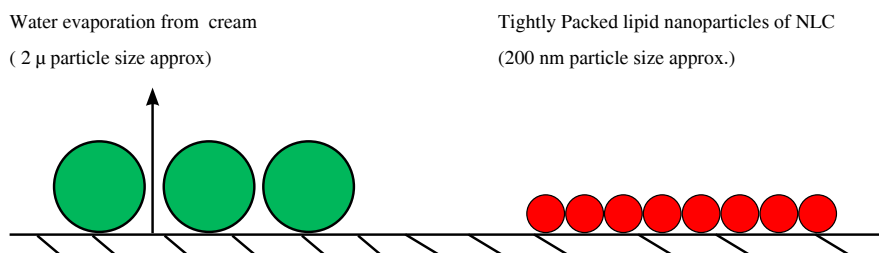


Fig 3: Amsterdam ,Free University Technology Presentation 2007. Rainer H. Müller ( 7)

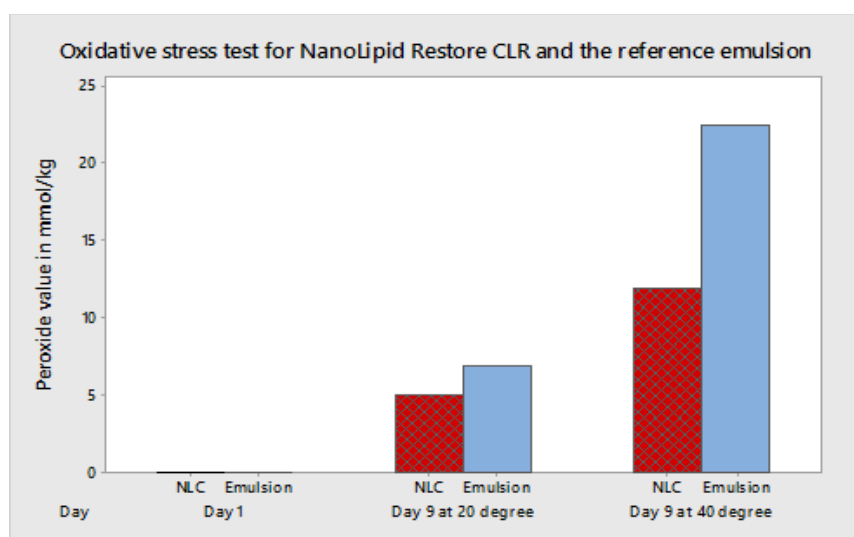


Fig 4: The peroxide value results of the oxidative stress test for NanoLipid Restore CLR and the reference emulsion at day 1 and after 9 days. The BCO in the NLC-based formula was better stabilized against peroxidation [3]

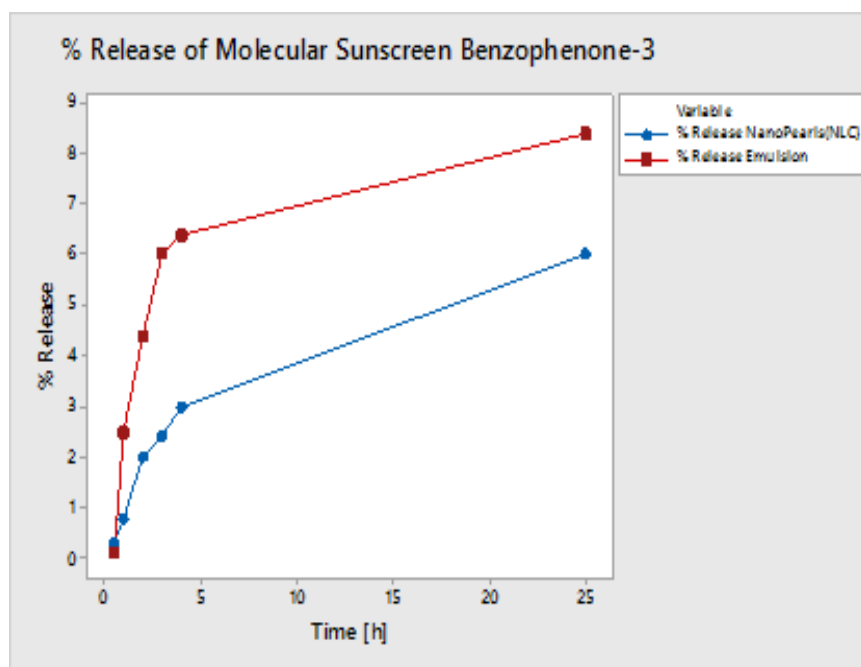


Fig 5: Release of benzophenone-3 from emulsion is twice as high as from NLC dispersion (Nano Pearls)(7).

Application of petrolatum to the skin is even more occlusive but leads to a less aesthetic, glossy skin appearance. In addition there are concerns that such a "100% occlusion" impairs "oxygen access" to the skin from the air

NLC poses significant stabilising activity as observed against Black Current Oil(BCO) and coenzyme Q10 in NanoLipid Restore CLR. [3,6]

Lipid nanoparticles showed to possess the characteristics of physical UV blockers. This feature is very important in order to formulate sun care products containing a lower amount of chemical sun filters but preserving their sun protection factor (SPF). A significant increase in SPF up to about 50 was reported after the encapsulation of titanium dioxide into NLC (5). Encapsulation of inorganic sunscreens into NLC is therefore a promising approach to obtain well tolerable sunscreens with high SPF[3]

## Conclusion

Nanostructured Lipid Carrier provides a new possibility of designing and formulating cosmetic products with -

- better skin hydration,
- penetration of actives,
- sun protection,
- sustained release and stability.

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## REPORT OF ISCC

**SEMINAR ON "SUNSCREEN - CHEMISTRY & FORMULATIONS" ON 16TH OF JULY, 2016 SATURDAY AT V.G. VAZE COLLEGE, MULUND.**

With a view to help the formulators understand the challenges of formulating Sunscreens with synonyms like maximum SPF, Matt Finish, Stable SPF throughout shelf life, Water Repellency, good Sensorial feel, Perfect Quality, Sprayable etc.; The seminar was conducted by one of the recognized and eminent speaker from the industry Mr. Philip Jacobs. Market Development Manager – South Asia, Beauty & Personal Care, Hallstar - Singapore.

**INFLUENCE OF CLIMATE ON SENSORY PROPERTIES OF SUNSCREENS ON 18TH JANUARY 2017 AT VAZE KELKAR COLLEGE.**

The presentation by Vincem wnt HUBICHE, Personal Care Application Lab Manager, Gattefosse SAS France focused on the following key elements. The development of sun care products, already complicated by regulatory constraints, is made more difficult by the variable needs of consumers across the same continent.

It is well known that the skin feel of a sun care product is strongly influenced by the UV filters, in particular in the case of high SPF formulations. Recent studies have shown that the environmental conditions should also be considered as they influence the perception of texture and skin feel.

It was attended by the people from the industry and academia.

**"PICASSA III 2016" - 360 DEGREE COSMETICS**

The Indian society of cosmetic Chemists in collaboration with Department of Cosmetics and Perfumery, V. G. Vaze College held its Annual International Scientific seminar "PICASSA III 2016" in the month of September 2016 in Mumbai. This biyearly event is organized to promote research in the cosmetic industry as well as provide advanced technical knowhow to the students and the industry personals so as to help them increase their knowledge for future research.

It was indeed a great event with over 260 participants. It was good to see participation from students from Nagpur, Amravati, Navi Mumbai, Ulhasnagar, Thane, Palghar and Mumbai, both from Pharma as well as Cosmetics faculty. There was lot of excitement amongst the students. The Industry participation & interaction was highly appreciated, added lot of value to the show."

**HPCI- ISCC INDUSTRY MEET 3RD MARCH 2017.**

HPCI- ISCC Industry Meet was organised on 3rd February 2017 at Indo German Chamber of Commerce, German House, 2, Nyaya Marg, Chanakyaपुरi New Delhi 110021, Was a big success. On this occasion "Innovative Naturals - The Current Trend" was presented by Dr. Renuka Thergaonkar to the gathering. Approx. 45 people from the Industry attended the seminar. The DELHI chapter of ISCC was launched. Mr. U.K. Dasgupta shall be in charge. This chapter shall serve the states of Delhi, Punjab, Haryana, HP and J&K.

## EVENT CALENDAR 2017

**COSMOPROF 2017**

17 - 20 MARCH 2017  
BOLOGNA, ITALY EUROPE

**BEAUTY DÜSSELDORF 2017**

31 MARCH - 02 APRIL 2017  
DÜSSELDORF, GERMANY EUROPE

**IN-COSMETICS GLOBAL 2017**

04 - 06 APRIL 2017  
LONDON, UK EUROPE

**HBS 2017**

10-11 APRIL 2017  
MUMBAI, INDIA

**INTERCHARM RUSSIA 2017**

20 - 22 APRIL 2017  
MOSCOW, RUSSIA EUROPE

**HOME AND PERSONAL CARE IN INDIA 2017**

25 - 26 APRIL 2017  
MUMBAI, INDIA ASIA

**COSMETIC REGULATIONS 2017**

27 APRIL 2017  
READING, UK EUROPE | REGULATORY

**BEAUTYWORLD MIDDLE EAST 2017**

14 - 16 MAY 2017  
DUBAI, UAE AFRICA ME

**ASCS CONFERENCE AND HPCI IRAN 2017**

15 - 17 MAY 2017  
KERMAN, IRAN AFRICA ME

**INNOCOS SUMMIT 2017**

16 - 17 MAY 2017  
DUBAI, UAE AFRICA ME

**14TH INTERNATIONAL SUN PROTECTION CONFERENCE**

6 - 7 JUN 2017  
LONDON UK EUROPE | SUN CARE

**HBA GLOBAL EXPO & CONFERENCE 2017**

13 - 15 JUNE 2017  
NEW YORK, US NORTH AMERICA

**IN-COSMETICS KOREA 2017**

20 - 22 JUNE 2017  
SEOUL, KOREA ASIA

**COSMETICBUSINESS MUNICH 2017**

21 - 22 JUNE 2017  
MUNICH, GERMANY EUROPE

**F&F 2017 (FLAVOURS & FRAGRANCES)**

27 - 28 JUNE 2017  
BANGKOK, THAILAND ASIA

**INNOCOS SUMMIT 2017**

29 - 30 JUNE 2017  
LISBON, PORTUGAL EUROPE

**SCS ANNUAL CONFERENCE - NATURALS IN COSMETIC SCIENCE 2017**

4-5 JULY 2017  
LONDON, UK INGREDIENTS | EUROPE

**COSMOPROF NORTH AMERICA 2017**

09 - 11 JULY 2017  
LAS VEGAS, US NORTH AMERICA

**CLEANROOM TECHNOLOGY CONFERENCE 2017**

12-13 SEPTEMBER  
NATIONAL CONFERENCE CENTRE, IRMINGHAM,  
UK, EUROPE

**IN-COSMETICS LATIN AMERICA 2017**

20 - 21 SEPTEMBER 2017  
SAO PAULO, BRASIL LATIN AMERICA

**BEYOND BEAUTY ASEAN 2017**

21 - 23 SEPTEMBER 2017  
BANGKOK, THAILAND ASIA

**IFEAT 2017**

24 - 28 SEPTEMBER 2017  
ATHENS, GREECE EUROPE

**IN-COSMETICS NORTH AMERICA 2017**

11 - 12 OCTOBER 2017  
NEW YORK, US NORTH AMERICA

**IFSCC 2017 24TH CONFERENCE**

23-25 OCTOBER 2017  
SEOUL, SOUTH KOREA R AND D | ASIA

**IN-COSMETICS FORMULATION SUMMIT 2017**

24 - 26 OCTOBER 2017  
LONDON, ENGLAND EUROPE

**HPCI TURKEY 2017**

25 - 26 OCTOBER 2017  
ISTANBUL, TURKEY ASIA

**IN-COSMETICS ASIA 2017**

31 OCTOBER - 02 NOVEMBER 2017  
BANGKOK, THAILAND ASIA

**COSMOPROF ASIA 2017**

14 - 17 NOVEMBER 2017  
HONG KONG ASIA



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